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PHOTOGRAPHIC INTERPRETATION REPORT

LAUNCH COMPLEXES C AND H
TYURA TAM MISSILE TEST CENTER,
USSR



CIA



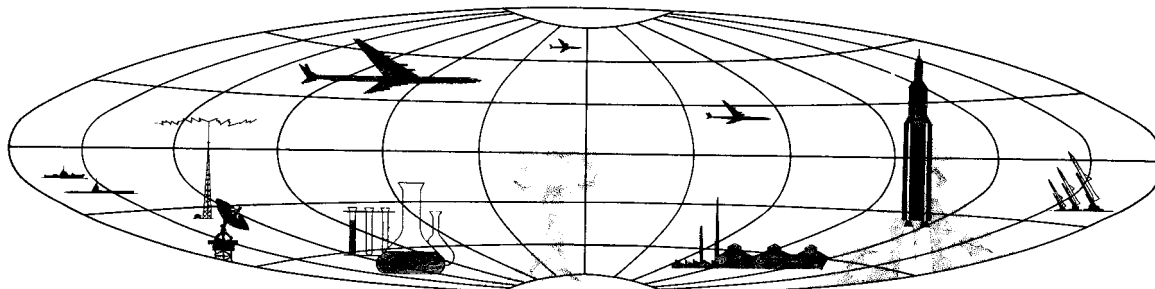
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NPIC/R-204/63

LAUNCH COMPLEXES C AND H TYURA TAM MISSILE TEST CENTER, USSR

LAUNCH COMPLEX C

Launch Complex C (45-57N 63-39E) is located 25 nautical miles (nm) northeast of the Support Base and 15 nm east of Launch Complex A (Figure 1). It consists of a road-served launch area and a rail- and road-served support

area (Figures 2 and 3). The rail spur into the launch area appears to have had very little or no use since the construction of the complex was completed. The main approach roads and the long axes of the pads are oriented on an

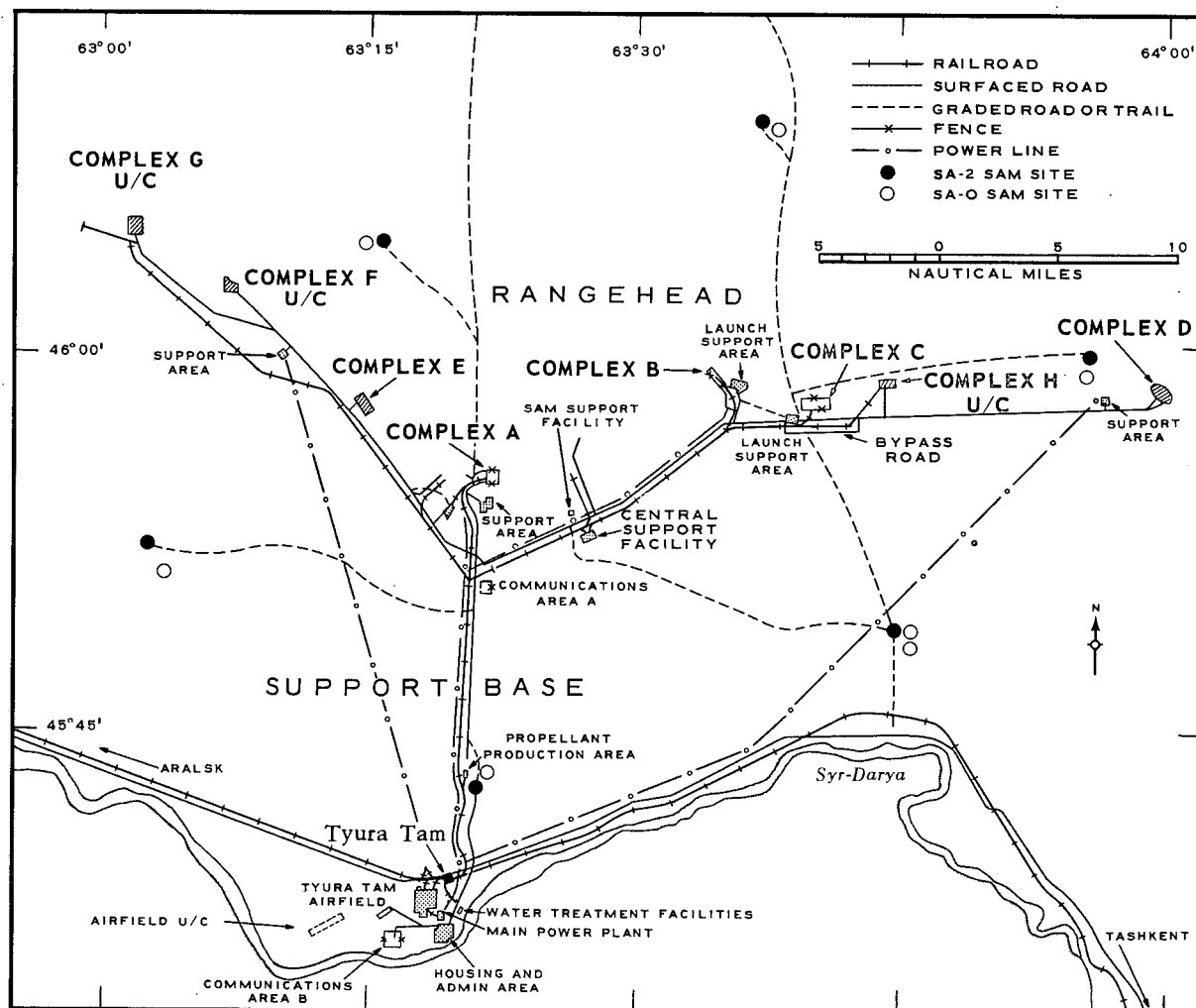


FIGURE 1. TYURA TAM MISSILE TEST CENTER.

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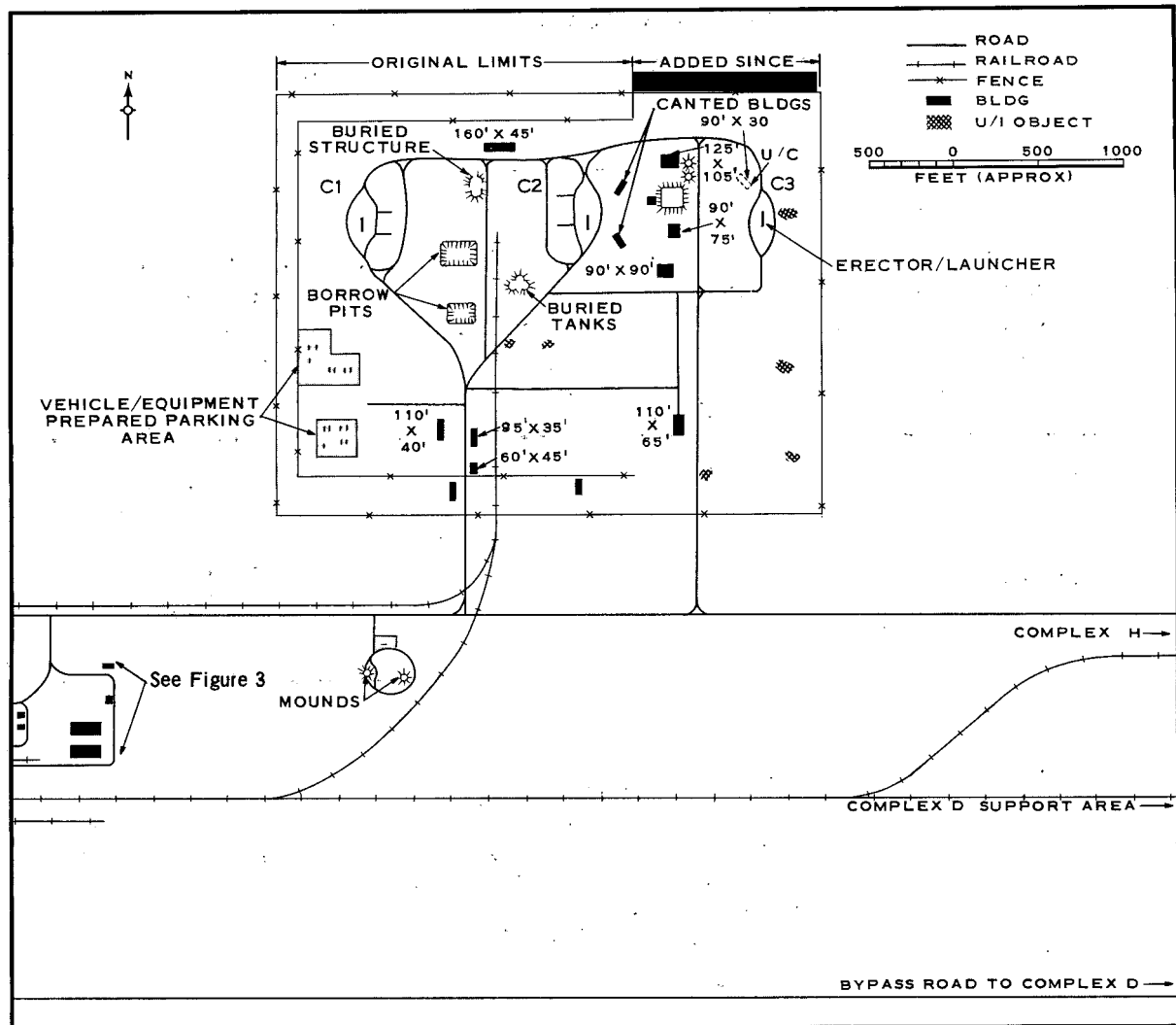


FIGURE 2. LAUNCH AREA, LAUNCH COMPLEX C.

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25X1D azimuth of [REDACTED] plus or minus 5 degrees.

25X1D Two significant features were evident in the construction timing sequence of Complex C. These were the identification of the first road mobile system (pads C1 and C2), observed under construction on [REDACTED]

25X1D and the expansion of the complex for a third pad (C3), begun sometime between [REDACTED]

25X1D [REDACTED]
25X1D [REDACTED]
25X1D [REDACTED] Pads C1 and C2 were the prototypes and

the signatures for the deployed soft ICBM site identified at Yurya in [REDACTED] and subsequently designated a Type II site. This report supplements existing studies, emphasizing facilities not covered in detail previously, and reviewing some of the more significant items.

Little or no change has taken place in the area of the two original launch pads (C1 and C2) since [REDACTED] At that time the launch area measured approximately 2,500 by 2,400

25X1D

25X1D

25X1D

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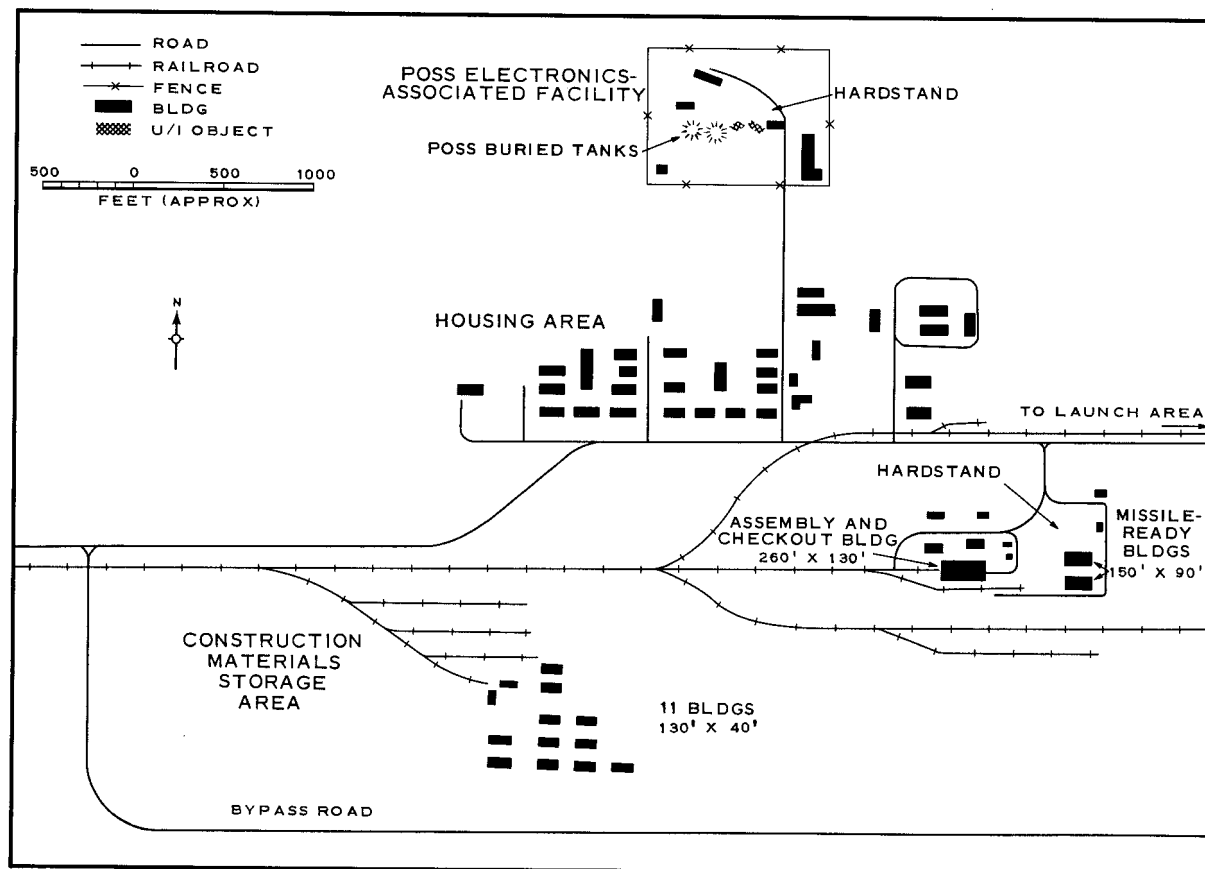


FIGURE 3. SUPPORT AREA, LAUNCH COMPLEX C.

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feet and consisted of a heart-shaped road pattern, a rail spur, 2 pads, a bunker, 4 buildings, and 2 buried tanks. The two borrow pits, and the structure between them for loading earth fill into trucks, are still evident inside the loop road. Two vehicle/equipment parking areas, located in the southwest corner of the fenced area, have been added since [REDACTED]

Construction of the two missile-ready buildings serving the complex, located in the support area southwest of the launch area, was begun sometime between [REDACTED]

[REDACTED] They are situated east of the assembly and checkout building, and measure about 150 by 90 feet. Launch Area A at Yurya (Figure 4) is a good example of this remote positioning of

missile-ready buildings at a deployed site. The drive-through missile-ready buildings identified on photo coverages of Launch Area B at Yurya, Areas B and C at Verkhnyaya Salda, and Area A at Plesetsk are located closer (approximately 900 feet) to the pads. The configuration of pads and ready buildings at these five launch areas has been designated Type II (Mod a). Another variation of the Type II site, with drive-in rather than drive-through missile-ready buildings, has the ready buildings separated and in line with the pad; this configuration has been designated Type II (Mod b).

The launch area was expanded approximately 1,000 feet eastward between [REDACTED]

25X1D

25X1D

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FIGURE 4. LAUNCH AREA A, YURYA, [REDACTED]



FIGURE 5. LAUNCH SITE A, KOSTROMA, [REDACTED]

25X1D [REDACTED] The first evidence of construction of pad
 25X1D C3 was observed on the [REDACTED] coverage,
 but poor photo quality and snow precluded detailed
 25X1D interpretation. Photography of [REDACTED]
 25X1D [REDACTED] provided the first good indication
 of the four buildings which are located along
 the offset road between pads C2 and C3. These
 four buildings have a north/south alignment
 west of the offset road. Identification of several
 deployed sites of this signature shows that the
 buildings may be to either side of the road.
 Launch Site A at Kostroma (Figure 5) is a good
 example of a deployed site of this signature.
 Photography of [REDACTED]
 25X1D [REDACTED] was of fair-to-poor
 25X1D quality and provided little additional data on the
 complex. A missile erected on pad C2 and at
 least seven vehicles in the pad area were
 25X1D identified on photography of [REDACTED]
 25X1D [REDACTED]. The configuration of pad C3,
 with the erector/launcher on the pad, could be

identified also. Only minor additions or changes
 could be observed in the complex generally. A
 Y-shaped pattern observed behind pad C2 on
 [REDACTED] was probably an open trench; the
 pattern did not appear on coverage of [REDACTED]
 [REDACTED] At least three buildings
 could be identified under construction in the
 southwest corner of the support area in [REDACTED]
 [REDACTED], and at least nine other buildings could
 be identified in that area on photography of
 [REDACTED] The construction
 timing indicates that these buildings are prob-
 ably associated with Launch Complex H.

The most significant items identified on
 [REDACTED] were two new canted buildings
 located on the east side of pad C2. The build-
 ings measure about 90 by 30 feet and are canted
 at angles of about 45 and 135 degrees to the pad.
 A similar structure appeared to be under con-
 struction inside of and near the north end of pad
 C3. None of these structures was present in

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25X1D [REDACTED] Possible construction of this type of canted building has also been observed at deployed sites at Drovyanaya, Sites C (Figure 6) and D, and Verkhnyaya Salda, Sites H and I. Although the buildings could not be identified at the deployed sites, clearings canted at or near the proper angles were identified. The canted buildings are a further modification of Type II sites designated Mod c. Additional minor variations have been observed both at Complex C and at a number of deployed Type II sites. No major changes could be observed at Launch Complex C on photography of [REDACTED]



FIGURE 6. LAUNCH SITE C, DROVYANAYA, [REDACTED]

25X1D

LAUNCH COMPLEX H

25X1D Launch Complex H (45-58N 63-41E), identified in [REDACTED] is located 27 nm northeast of the Support Base and 2 nm east of Launch Complex C (Figure 1). It includes a rail- and road-served launch area and an electronics facility (Figure 7), which are probably served by the support area at Launch Complex C. The complex was in an early stage of construction in [REDACTED] and the type of site could not be determined.

25X1D There was no evidence of construction in the launch area and only a few old trails were apparent on photography of [REDACTED]

25X1D By [REDACTED], a rail spur had been constructed into the launch area from the support area at Complex C. A hard-surfaced road, connecting the launch area with the main road between Launch Complexes B, C, and D, had also been constructed. The rail spur terminates at a large, irregular-shaped, shallow excavation near the center of the launch area. The excavation contains two small structures or buildings; one appears to

be rectangular and the other is nearly square. Two smaller, nearly rectangular, excavations also appear in the launch area. No launch pads or silos can be identified. Eight large buildings, one of which is still under construction, and three smaller buildings are located within the launch area. Four large buildings at the north end of the area form an uneven cross, with an unidentified object at the intersection of projected lines between opposite buildings. The launch area is not fenced.

A triangular-shaped secured area one nm southeast of the launch area encloses an L-shaped probable interferometer in an early stage of construction. Only one leg of the facility, 1,200 feet long, is visible and the location of the other leg can be determined only from ground scarring. At the intersection of the two legs there appears to be a small shallow excavation. No buildings are apparent in the area.

The probable support area for Launch Complex H is 3 nm southwest of the launch area, just south of the housing area in the support area

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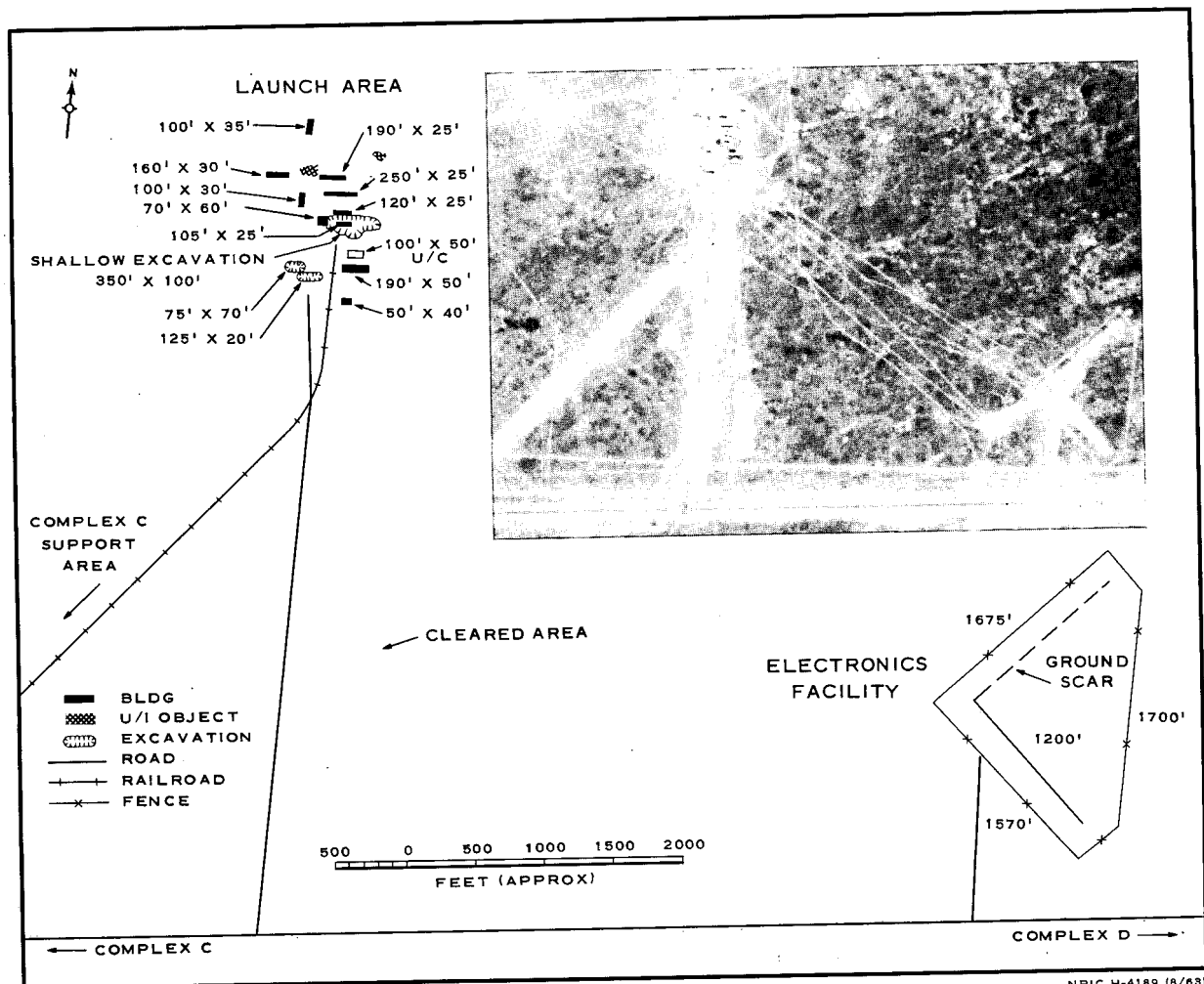


FIGURE 7. LAUNCH COMPLEX H, 25X1D

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for Launch Complex C. Construction timing features of the support area suggest its association with Complex H. In 25X1D there was no evidence of construction in the support area, but three buildings were under construction in 25X1D. 25X1D the area contained an increased amount of open storage; 11 large storage/barracks buildings, two of which were

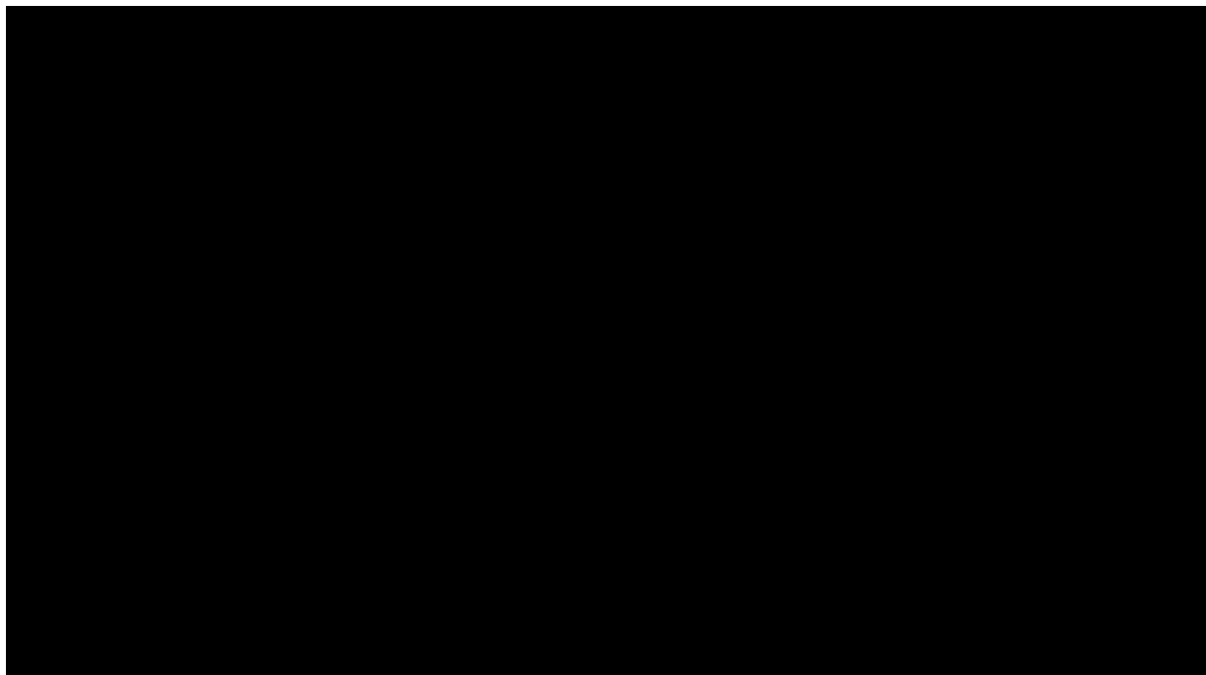
under construction; and two small buildings at the end of the rail spurs. An increase in material in the open storage area that supported Complex C during construction also indicated the same area was being used to support Complex H.

The poor quality of photography of Launch Complex H on 25X1D limited interpretation to identification only.

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REFERENCES

PHOTOGRAPHY



25X1D

MAPS OR CHARTS

DESPA. Series 1, Sheet NL 41-8, 1st ed, Nov 62, scale 1:250,000 (TOP SECRET RUFF)

RELATED DOCUMENTS

NPIC. R-50/63, Launch Complex C, Tyura Tam Missile Test Center, Apr 63 (TOP SECRET CHESS RUFF)

NPIC. R-59/62, Missile Test Center, Tyura Tam, USSR: Changes and Additions
[redacted] Apr 62 (TOP SECRET CHESS RUFF)

NPIC. PIC/JR-8/61, Tyura Tam Missile Test Center, USSR
[redacted] Aug 61 (TOP SECRET CHESS RUFF)

25X1D

25X1D

REQUIREMENTS

AF 2-63

OSI/R-147-63

NPIC PROJECT

JN-79/63 (partial answer)

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